## **ENGINEERING MANAGEMENT SUPPORT INC.**

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VIA: Electronic Mail

November 10, 2014

U.S. Environmental Protection Agency Region VII SUPR/MOKS 11201 Renner Boulevard Lenexa, KS 66219

ATTENTION: Mr. Bradley Vann

SUBJECT: Monthly Status Report – October 2014
West Lake Landfill Operable Unit 1, Bridgeton, Missouri

Dear Mr. Vann,

On behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC., Rock Road Industries, Inc., and the United Sates Department of Energy (the "Respondents"), Engineering Management Support Inc. (EMSI) submits the attached status report for the month of October 2014 as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005. If you have any questions or desire additional information related to this status report or any other aspect of the project, please do not hesitate to contact me.

Sincerely, ENGINEERING MANAGEMENT SUPPORT, Inc.

Paul V. Rosasco, P.E.

#### Distribution:

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# Monthly Status Report – October 2014 West Lake Landfill Operable Unit 1 Bridgeton, Missouri

This status report has been prepared by Engineering Management Support Inc. (EMSI) on behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC (formerly known as Laidlaw Waste Systems [Bridgeton] Inc.), Rock Road Industries, Inc., and the United States Department of Energy (the "Respondents") for Operable Unit - 1 (OU-1) at the West Lake Landfill as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005.

## 1. Work Performed During October 2014

## **Project Planning**

A draft of the Core Sampling (Phase 1B, 1C and 2) Work Plan for the isolation barrier investigation was submitted to EPA and MDNR on December 18, 2013. EPA comments on the draft work plan were received on December 26, 2013. The final Phase 1B, 1C and 2 Core Sampling Work Plan was submitted on January 8, 2014.

EPA comments on the various work plans prepared for the additional Supplemental Feasibility Study evaluations were received on August 16, 2013. A meeting was held with EPA and MDNR on September 24, 2013 to discuss comments on the work plans for the additional SFS evaluations. Revisions to the work plans for evaluations of alternative Area 2 depths and volumes, apatite treatment technologies and additional discount rate were prepared and submitted to EPA and MDNR on October 31, 2013. A revised work plan for evaluation of alternative landfill cover designs was submitted to EPA and MDNR on February 21, 2014. A revised work plan for performance of fate and transport evaluations was submitted to EPA and MDNR on September 4, 2014. EPA approval of the work plans for additional discount rate evaluations and evaluation of alternative landfill cover designs was received on September 19, 2014.

A draft Remedial Design Work Plan was submitted to EPA in November 2008. In accordance with direction from EPA, all work on design of the ROD-selected remedy has been put on hold.

#### Fieldwork - Sample Collection/Analysis

Other than continuation of the air monitoring activities associated with Phase 1 of the Thermal Isolation Barrier investigation, no field work was conducted. With the mechanical failure of one of the two temporary air monitoring stations that have been operated on a voluntary basis by Bridgeton Landfill, LLC and the pending approval of the

comprehensive on-site Air Monitoring, Sampling and QA/QC Plan, operation of the one remaining temporary air monitoring station was terminated in October.

# **Report Preparation**

The monthly progress report for September 2014 was prepared and submitted to EPA and MDNR on October 10, 2014.

During October, the following work was performed:

- Additional discount rate evaluations were performed and a memorandum documenting the results of the additional evaluations was submitted to EPA on October 31, 2014;
- Evaluations of volume estimates for the three partial excavation options identified by EPA were performed and a report of these evaluations was submitted to EPA on October 31, 2014;
- Evaluation of alternative landfill cover designs was conducted during this reporting period;
- Preparation of a comprehensive groundwater report; and
- Preparation of a summary report for the Phase 1 drilling and sampling investigation of potential areas for locating a thermal/isolation barrier between the North Quarry area of the Bridgeton Landfill and West Lake Landfill Area 1.

Project Management
None.
Meetings
None.
Correspondence
None.

#### 2. Analytical Data Collected During This Reporting Period

Two analytical laboratory reports (Eberline nos. 14-09075 and 14-09153) for air monitoring samples collected as part of the Isolation Barrier investigations were received during this period. These reports are included as part of the electronic submittal of this status report.

## 3. Work Scheduled to be Performed during November and December 2014

The following activities will be performed during November and December 2014:

- Preparation of a summary report that presents the data from the four additional groundwater monitoring events (July/August 2012, April 2013, July 2013, and October 2013) and provides interpretation of the results for the four events;
- Evaluation of the potential application of an alternative landfill cover that incorporates a geosynthetic clay liner (GCL) into the design of the cover for OU-1; and
- Preparation of the Bridgeton Landfill Thermal Isolation Barrier Investigation
  Phase 1 Report that summaries the results of the Phase 1 drilling and sampling
  associated with investigation of potential areas for locating a thermal/isolation
  barrier.

#### 4. Problems Encountered

None.